

# DC Fan

# 80×80×25 mm

**San Ace 80 9S** type Silent Fan  **US** Model 9S0812H401 is not TÜV certified.



## General Specifications

- Material ..... Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-1)
- Expected life ..... See the table below. (L10 life: 90% survival rate for continuous operation in free air at 60°C, rated voltage)  
Expected life at 40°C is for reference only.
- Motor protection function ..... Locked rotor burnout protection, Reverse polarity protection  
For details, please refer to p. 573.
- Dielectric strength ..... 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance ..... 10 MΩ or more with a 500 VDC megger (between lead wire conductors and frame)
- Sound pressure level (SPL) ..... At 1 m away from the air inlet
- Storage temperature ..... -30 to +70°C (Non-condensing)
- Lead wire ..... ⊕Red ⊖Black ☐ Sensor ☐ Yellow
- Mass ..... 75 g

## Specifications

The models listed below **have ribs and pulse sensors**. For models without ribs, append "1" to the end of model numbers.

| Model no.    | Rated voltage<br>[V] | Operating voltage range<br>[V] | Rated current<br>[A] | Rated input<br>[W] | Rated speed<br>[min <sup>-1</sup> ] | Max. airflow<br>[m <sup>3</sup> /min] [CFM] | Max. static pressure<br>[Pa] [inchH <sub>2</sub> O] | SPL<br>[dB (A)] | Operating temperature<br>[°C] | Expected life<br>[h]       |
|--------------|----------------------|--------------------------------|----------------------|--------------------|-------------------------------------|---------------------------------------------|-----------------------------------------------------|-----------------|-------------------------------|----------------------------|
| » 9S0812H401 | 12                   | 5.0 to 13.2                    | 0.23                 | 2.76               | 3400                                | 1.12 39.5                                   | 52.15 0.2                                           | 31              | -10 to +70                    | 40000/60°C<br>(70000/40°C) |
| » 9S0812F401 |                      | 5.0 to 13.8                    | 0.11                 | 1.32               | 2800                                | 0.93 32.8                                   | 35.5 0.143                                          | 24              |                               |                            |
| » 9S0812M401 |                      |                                | 0.08                 | 0.96               | 2500                                | 0.83 29.3                                   | 27.5 0.11                                           | 22              |                               |                            |
| » 9S0812L401 |                      | 6.0 to 13.8                    | 0.05                 | 0.6                | 2000                                | 0.66 23.3                                   | 18.1 0.073                                          | 16              |                               |                            |
| » 9S0824M401 | 24                   | 10 to 26.4                     | 0.06                 | 1.44               | 2500                                | 0.83 29.3                                   | 27.5 0.11                                           | 22              |                               |                            |
| » 9S0824L401 |                      |                                | 0.04                 | 0.96               | 2000                                | 0.66 23.3                                   | 18.1 0.073                                          | 16              |                               |                            |

The following sensor and control options are available for selection.

Available for all models. **Lock sensor**

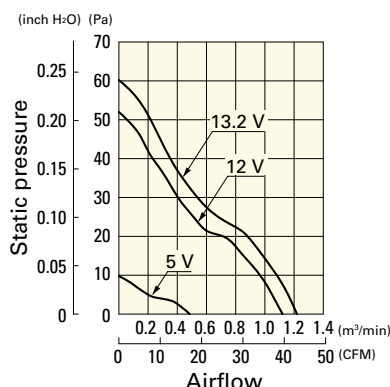
Differs according to the model. Refer to the table on p. 609. **Without sensor** **PWM control**

The » mark indicates Short LeadTime Service applicable models. See p. 626 for details.

## Airflow - Static Pressure Characteristics

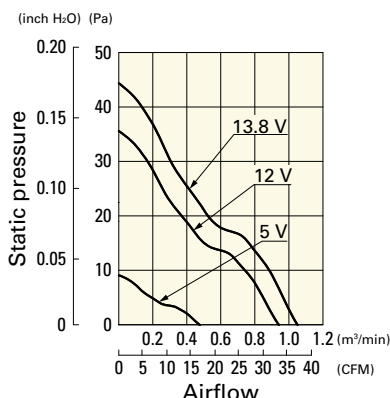
**9S0812H401** With pulse sensor

Operating voltage range



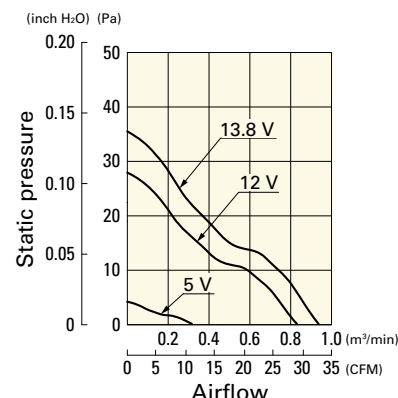
**9S0812F401** With pulse sensor

Operating voltage range



**9S0812M401** With pulse sensor

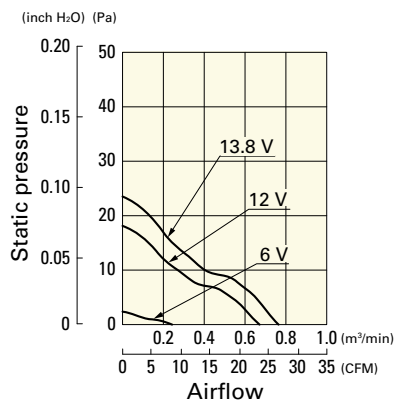
Operating voltage range



## Airflow - Static Pressure Characteristics

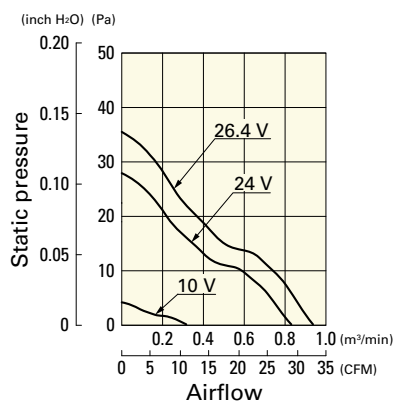
### 9S0812L401 With pulse sensor

Operating voltage range



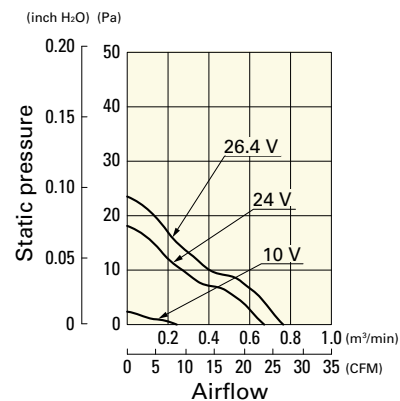
### 9S0824M401 With pulse sensor

Operating voltage range

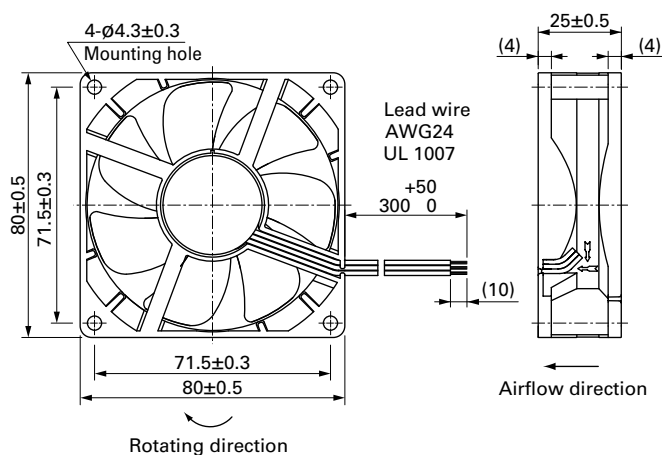


### 9S0824L401 With pulse sensor

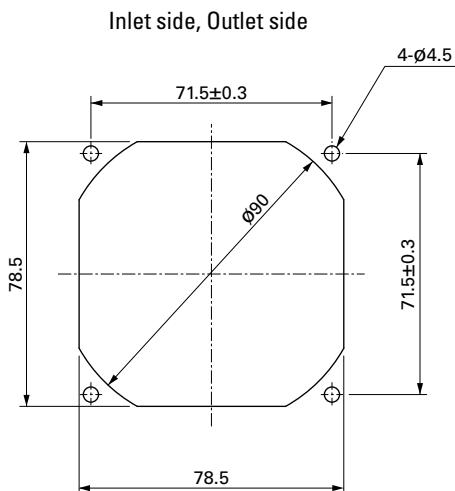
Operating voltage range



## Dimensions (unit: mm) (With ribs)



## Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)



## Options

### Finger guards

page: p. 558

Model no.: 109-049E, 109-049H, 109-049C

### Resin finger guards

page: p. 565

Model no.: 109-1002G

### Resin filter kits

page: p. 566

Model no.: 109-1002F13 (13PPI), 109-1002F20 (20PPI),  
109-1002F30 (30PPI), 109-1002F40 (40PPI)